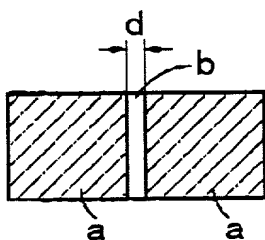
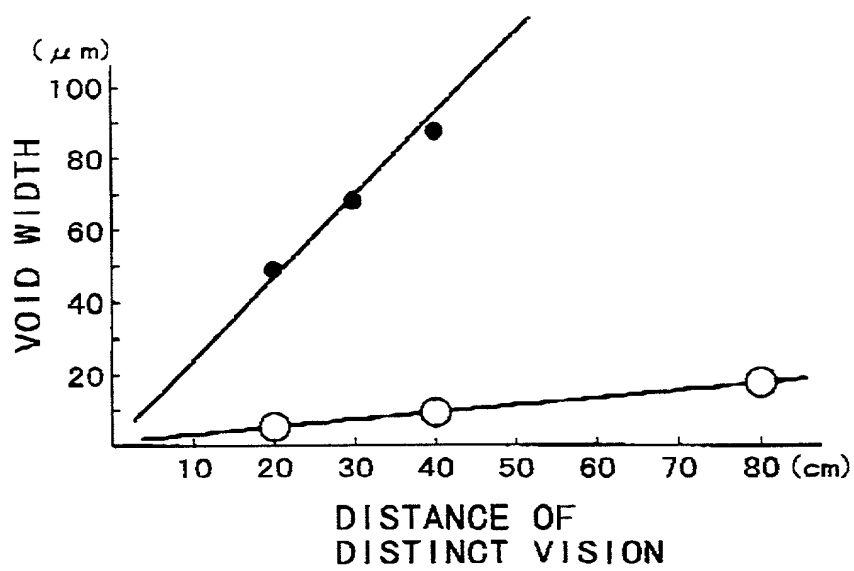
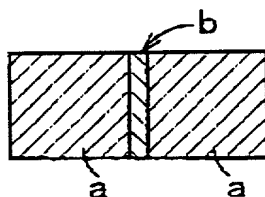


FIG. 1A



**FIG. 1B**



**FIG. 1C**

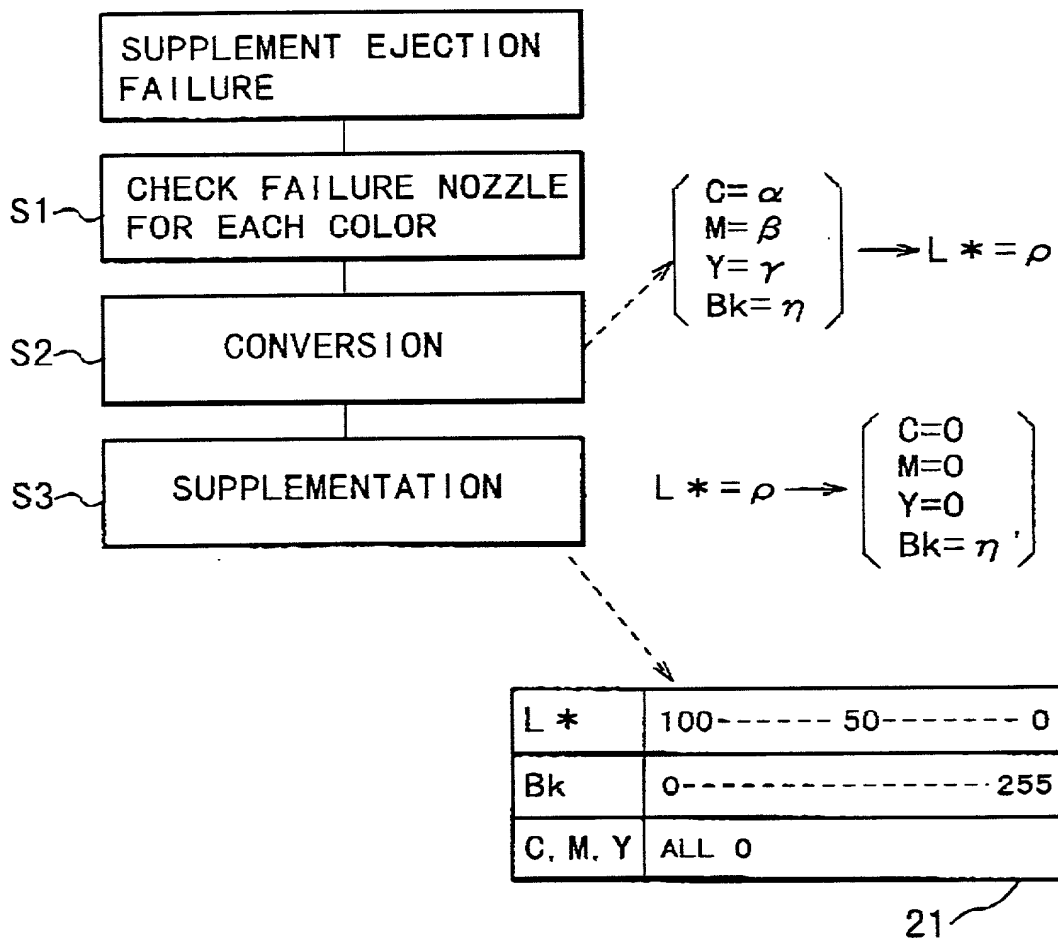


FIG. 2

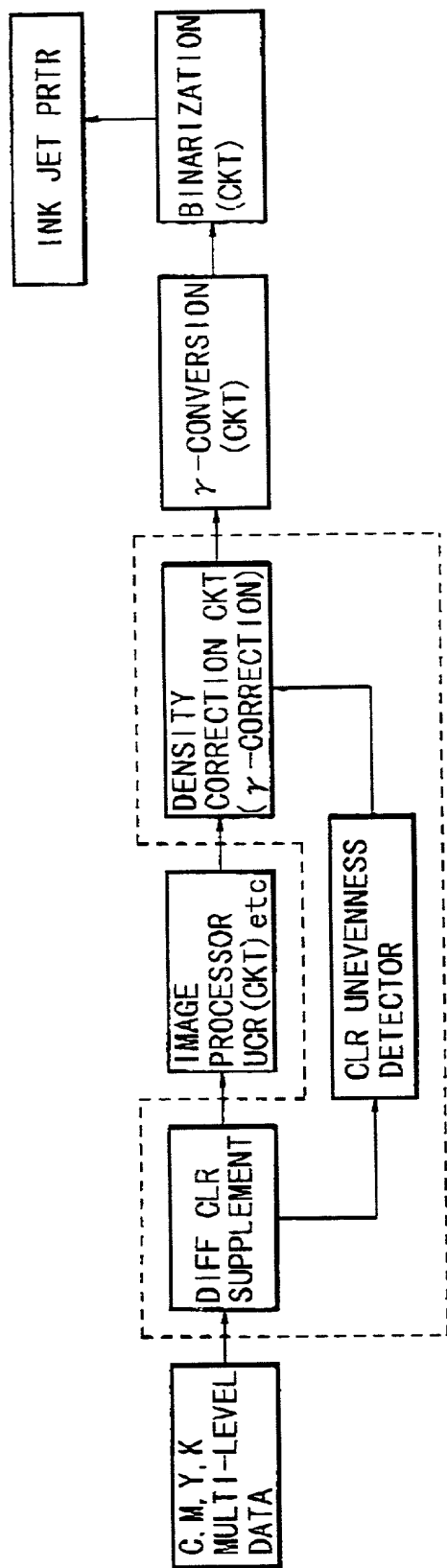


FIG. 3A

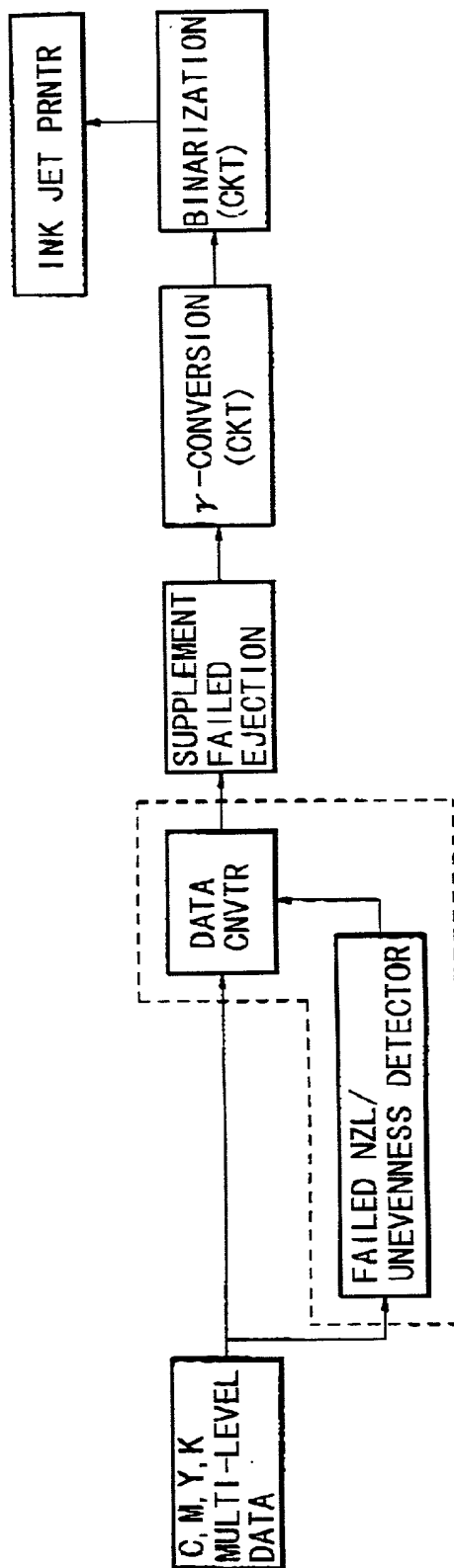
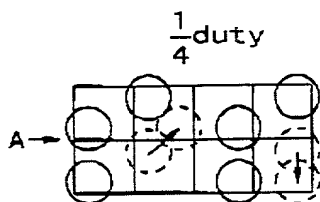
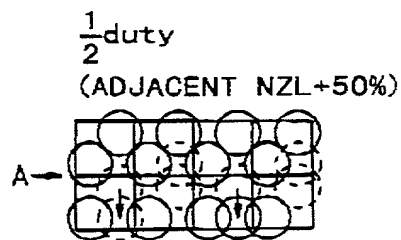


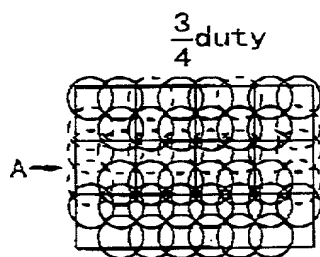
FIG. 3B



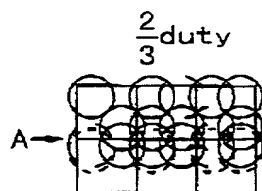
**FIG. 4A**



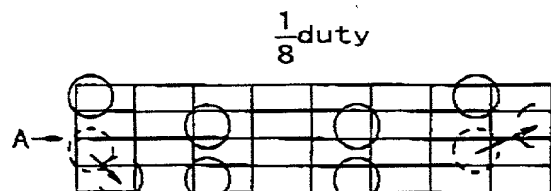
**FIG. 4B**



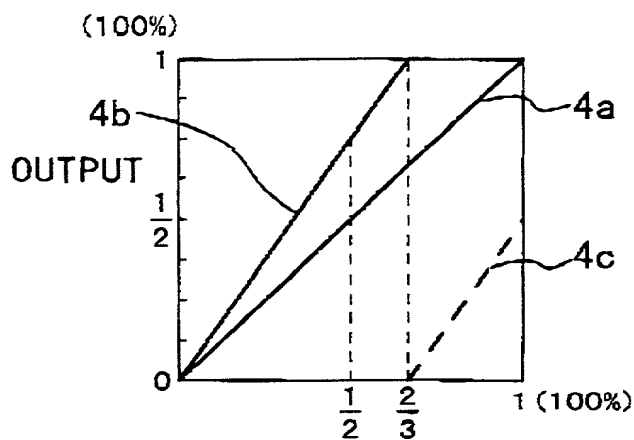
**FIG. 4C**



**FIG. 4D**



**FIG. 4E**



$\gamma$ -CORRECTION CKT

**FIG. 4F**

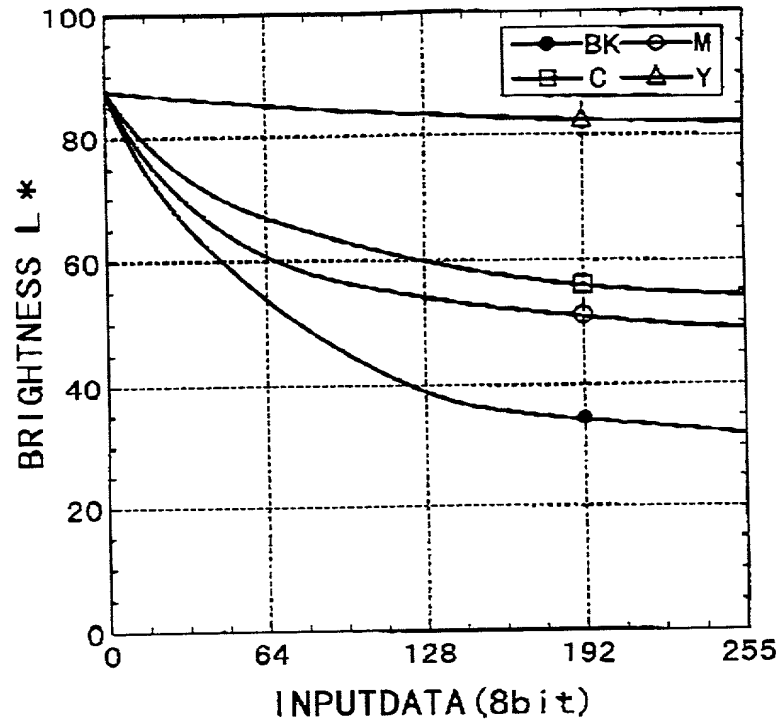


FIG. 5

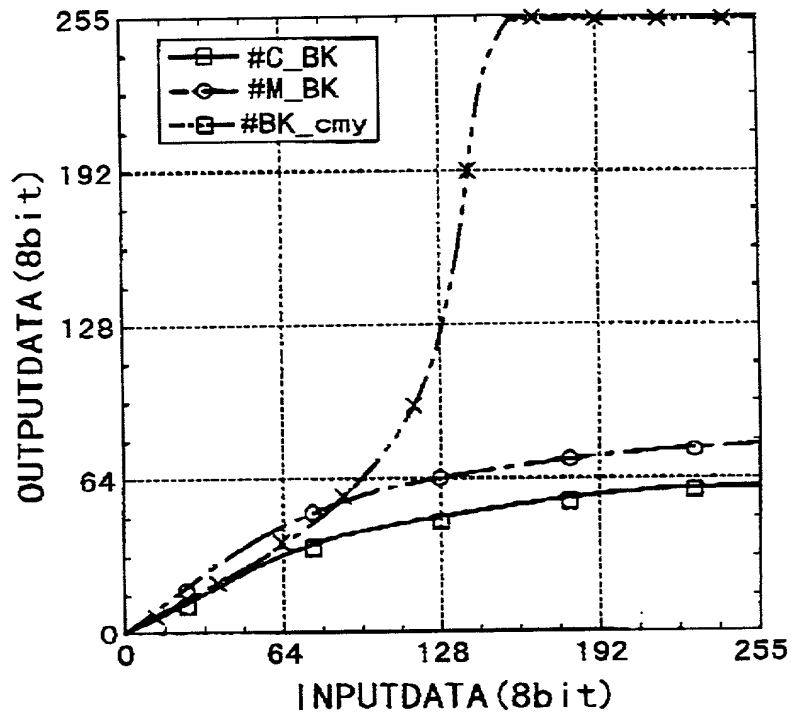


FIG. 6

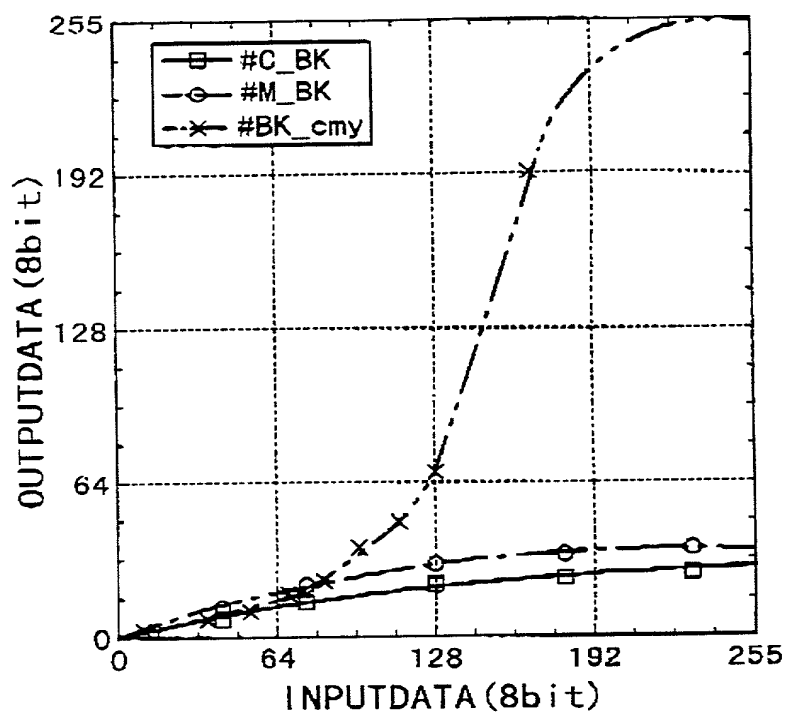


FIG. 7

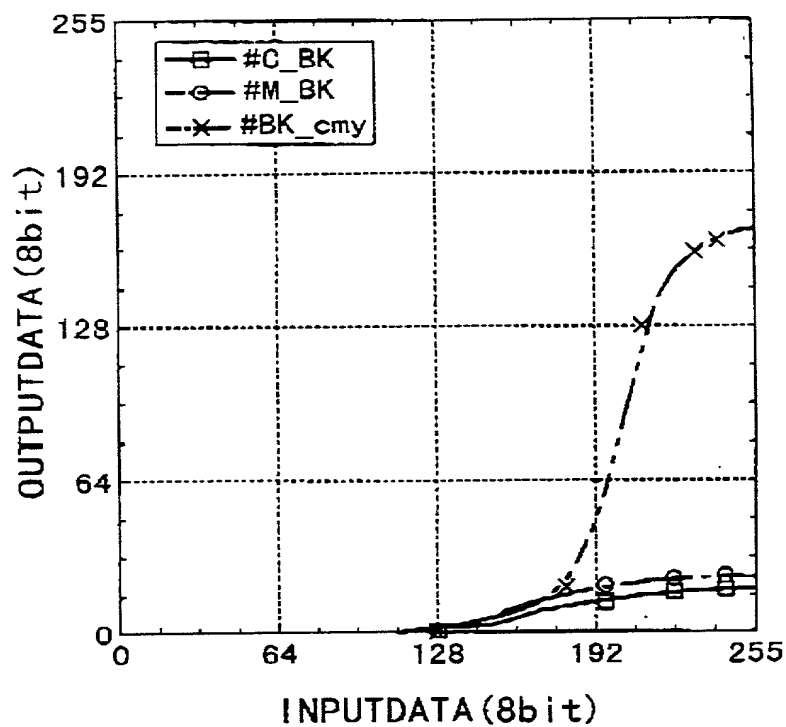


FIG. 8

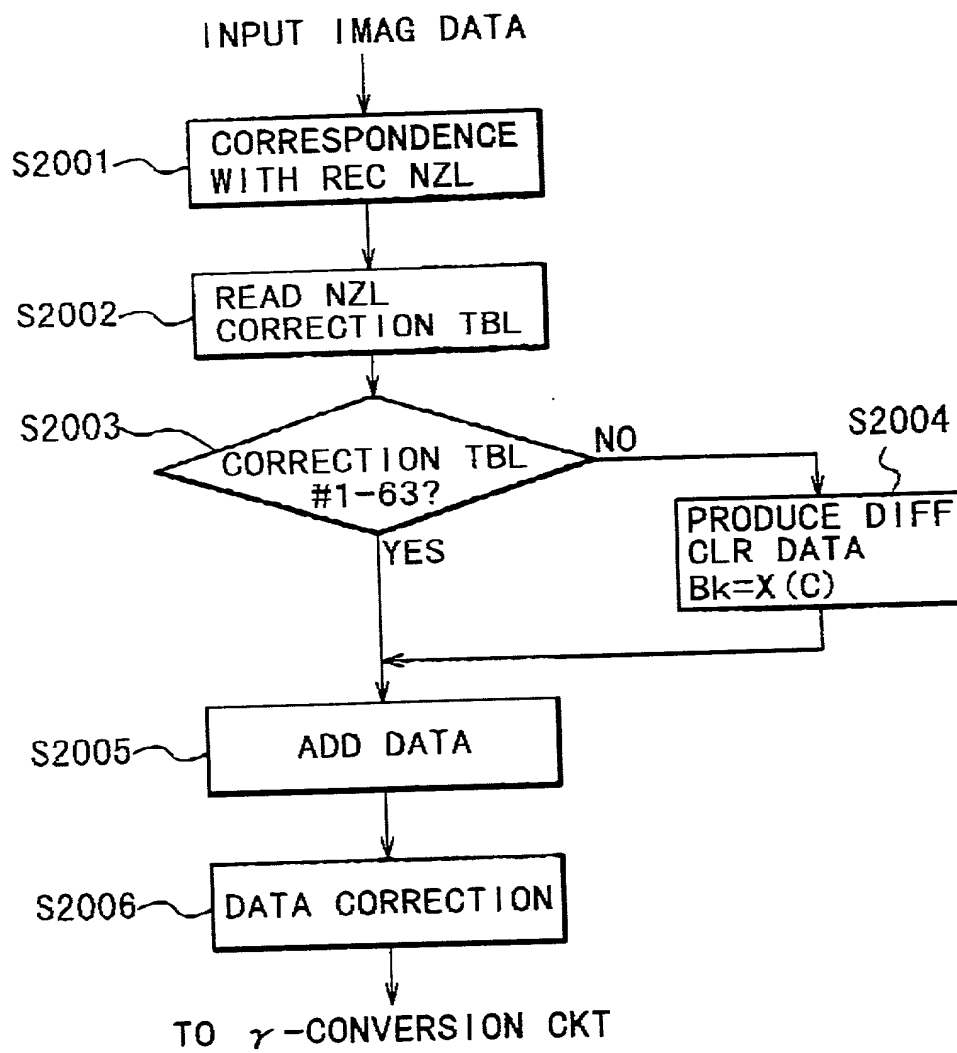


FIG. 9

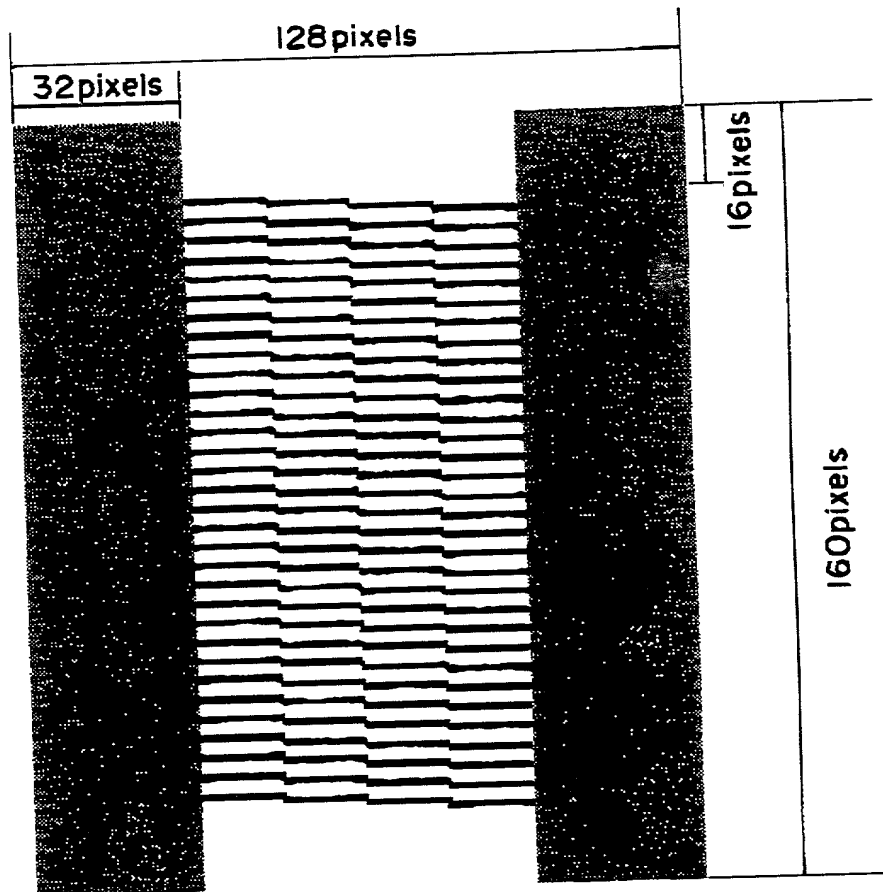


FIG. 10



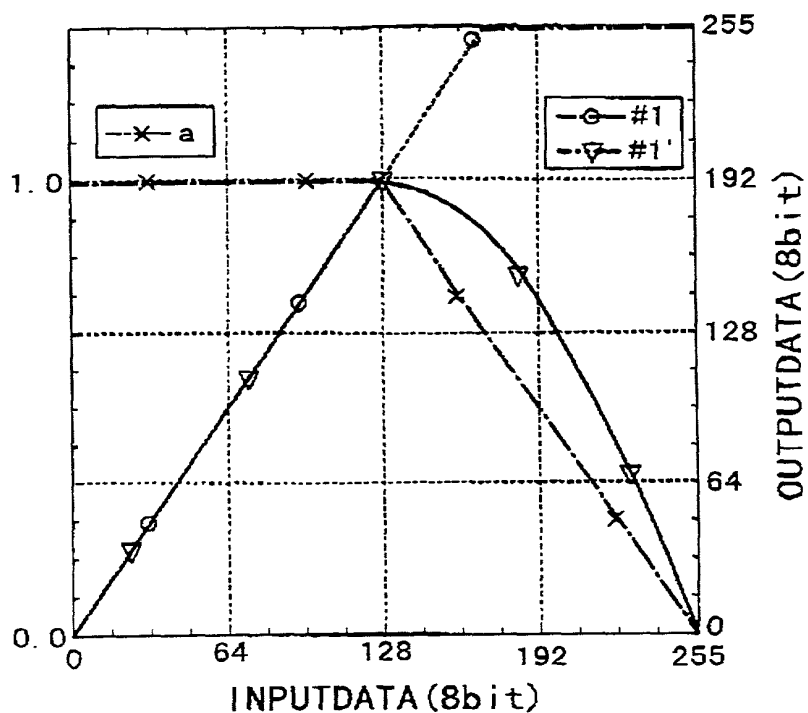


FIG. 11

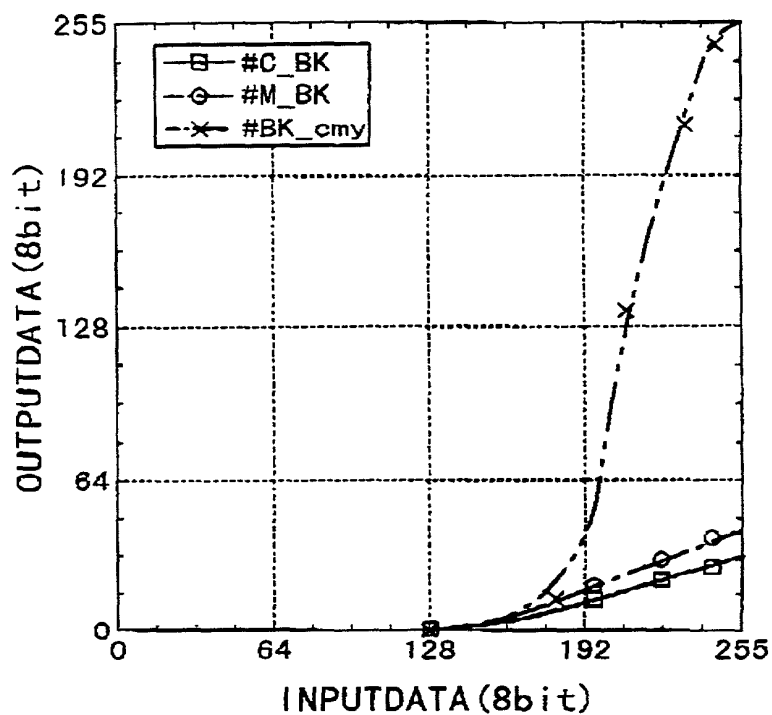


FIG. 12

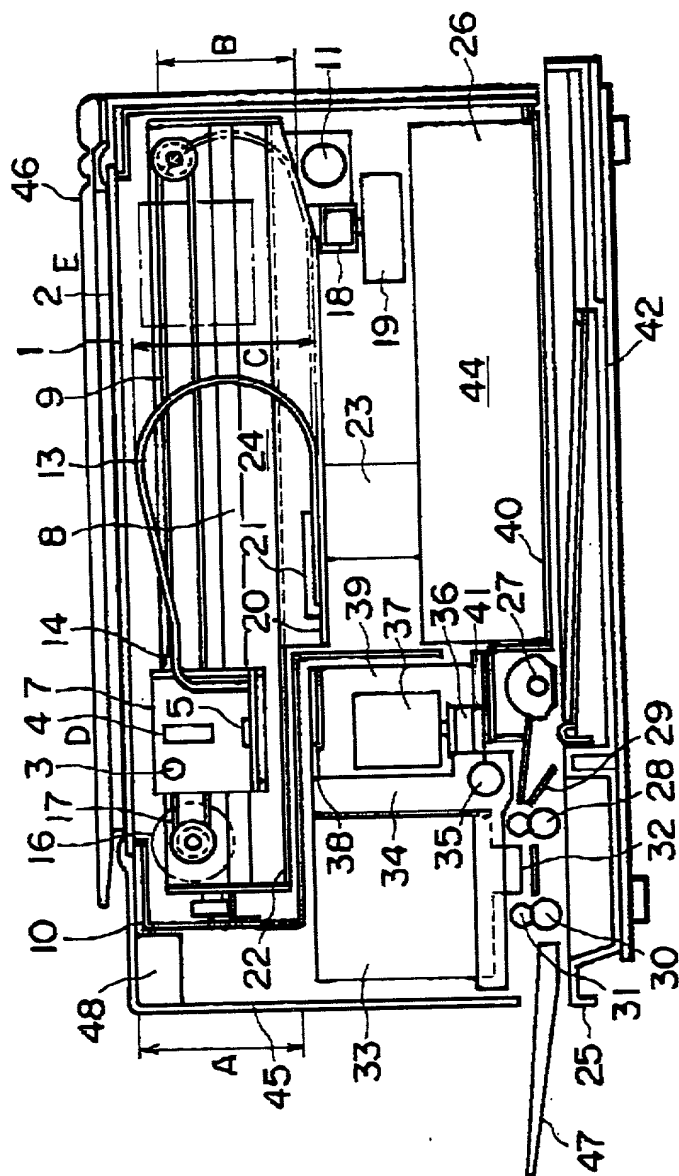


FIG. 13

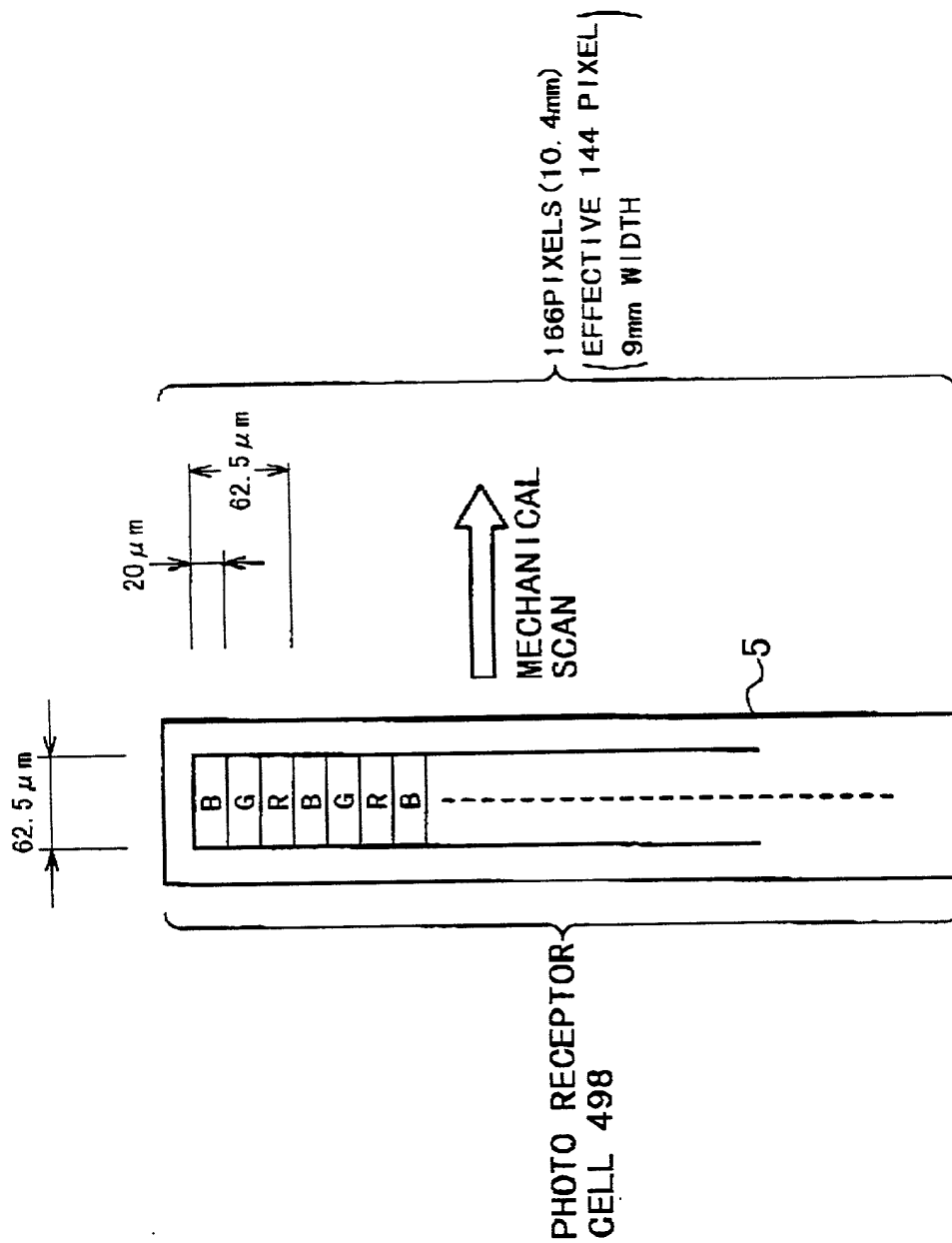


FIG. 14

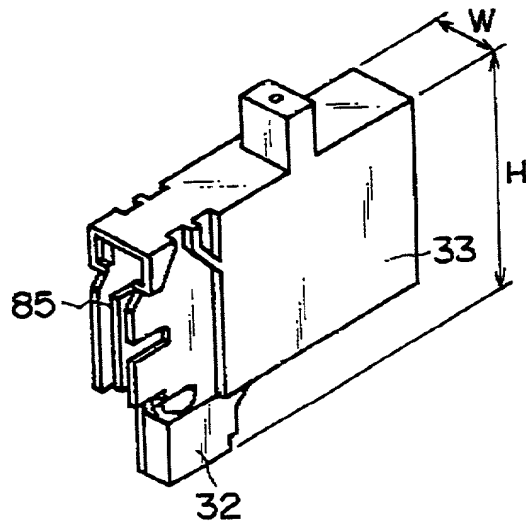


FIG. 15

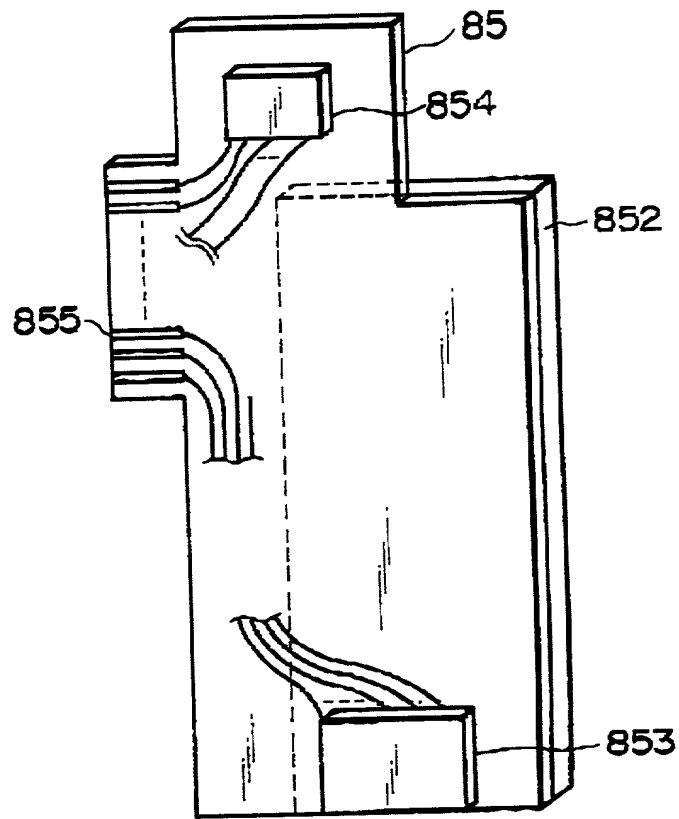


FIG. 16

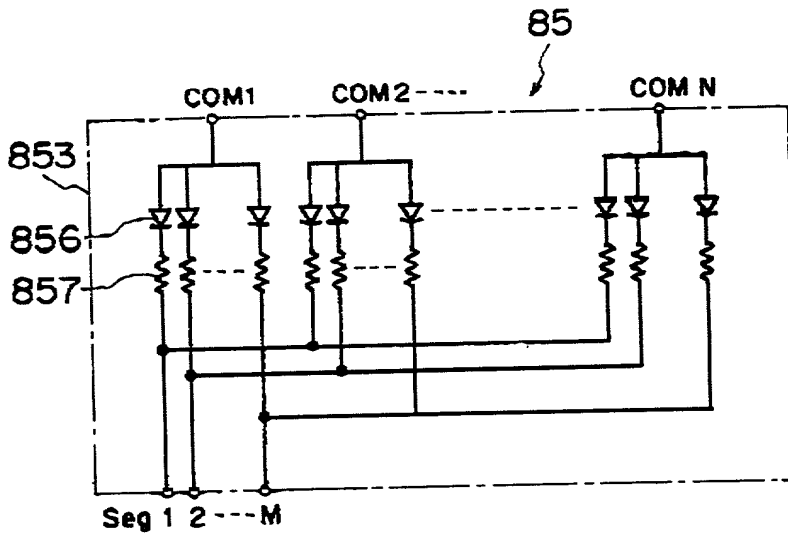


FIG. 17A

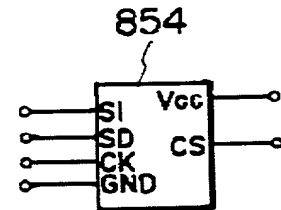


FIG. 17B

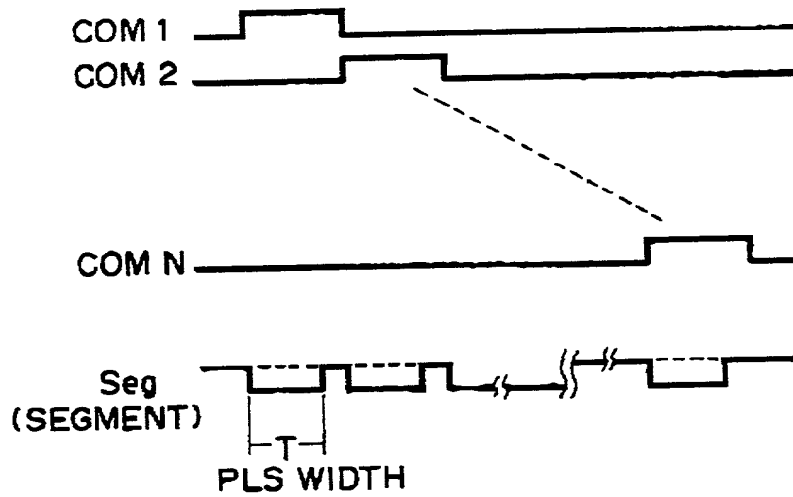


FIG. 18

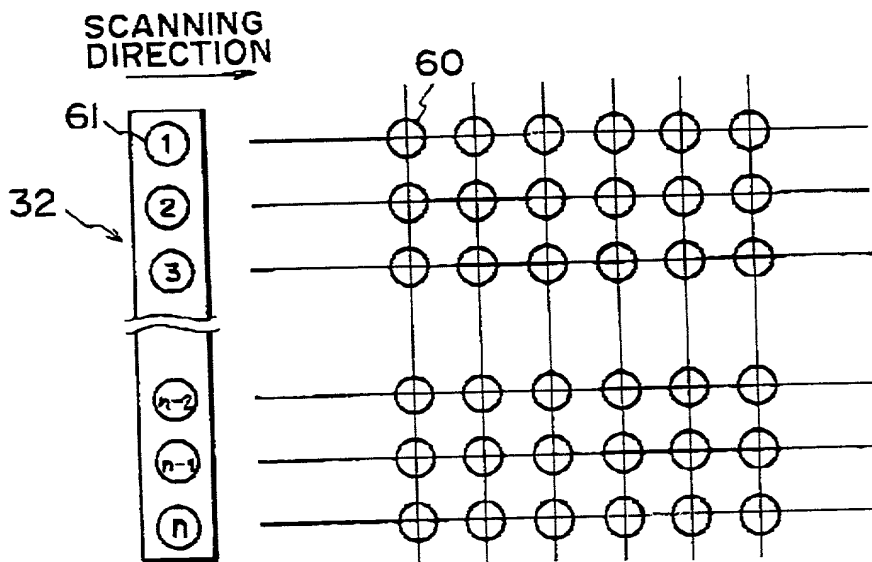


FIG. 19A

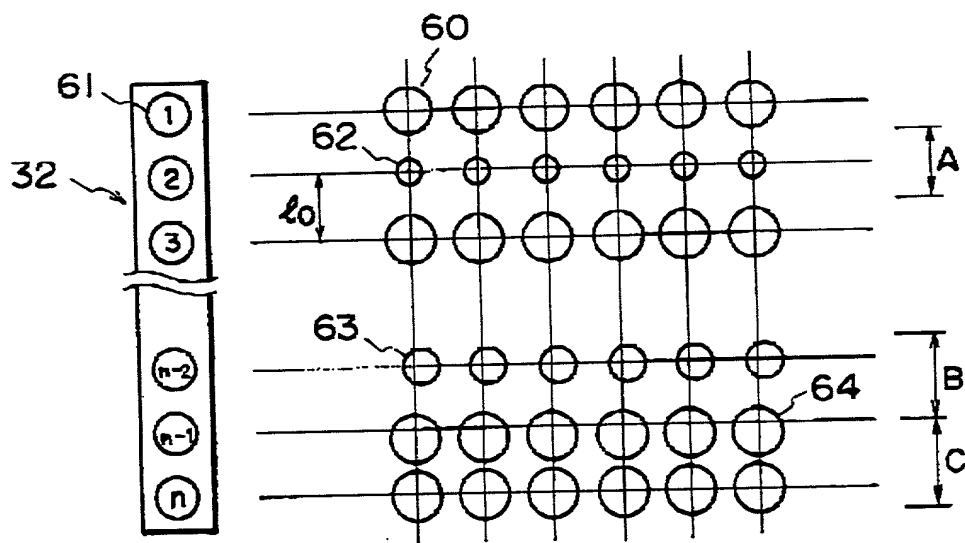


FIG. 19B

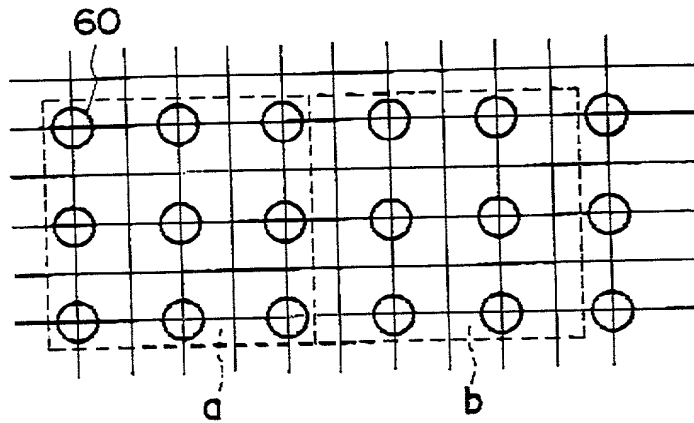


FIG. 20A

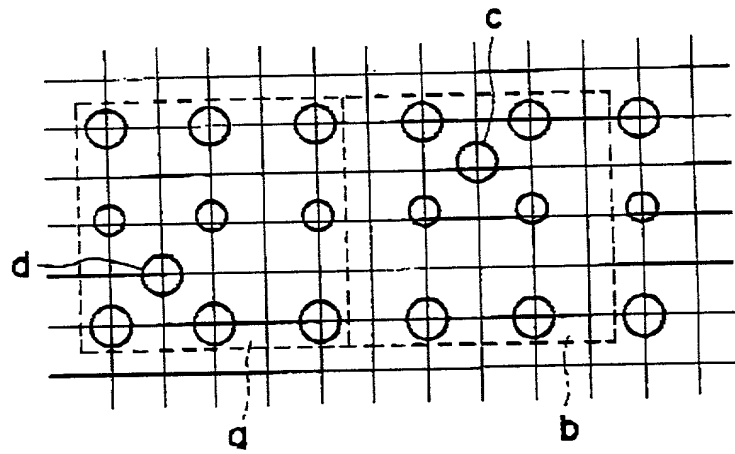


FIG. 20B

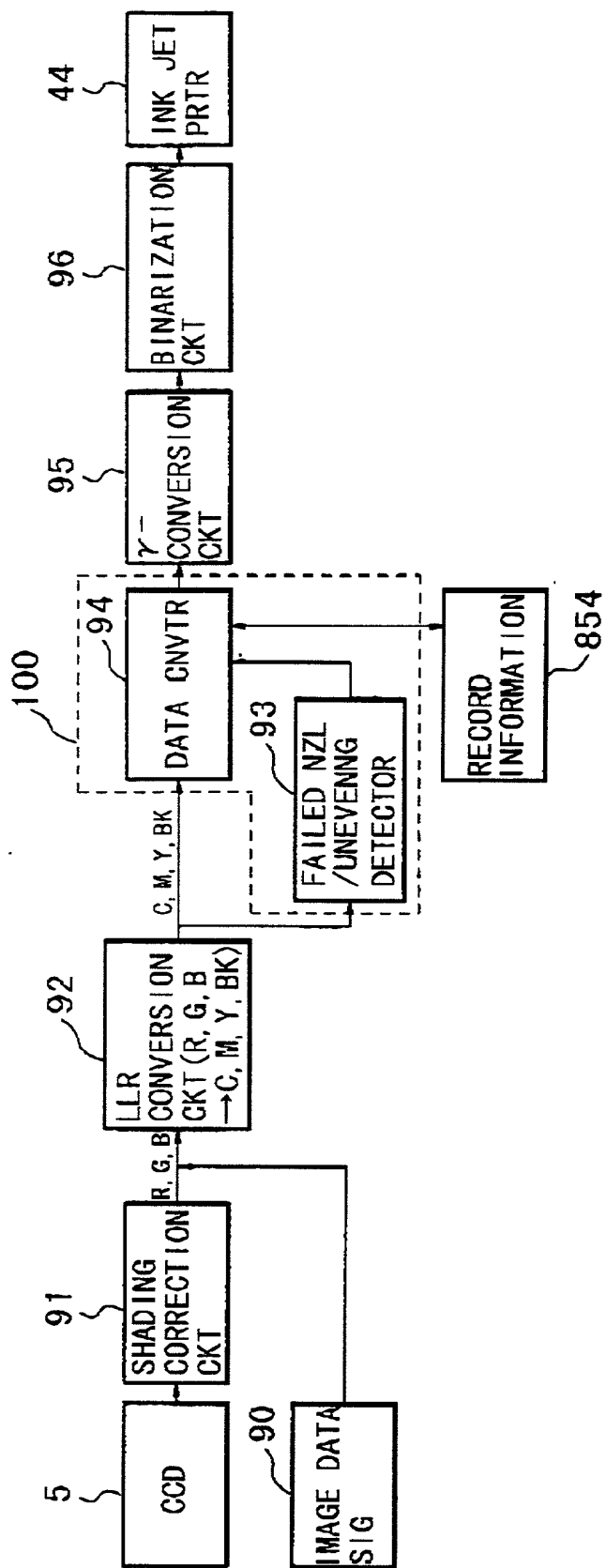


FIG. 21



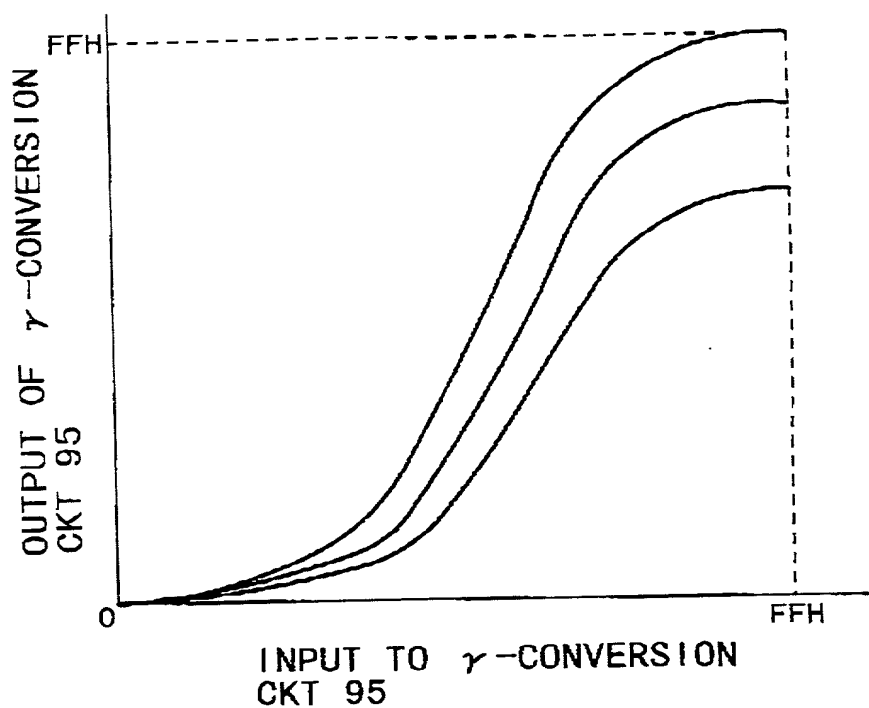


FIG. 22

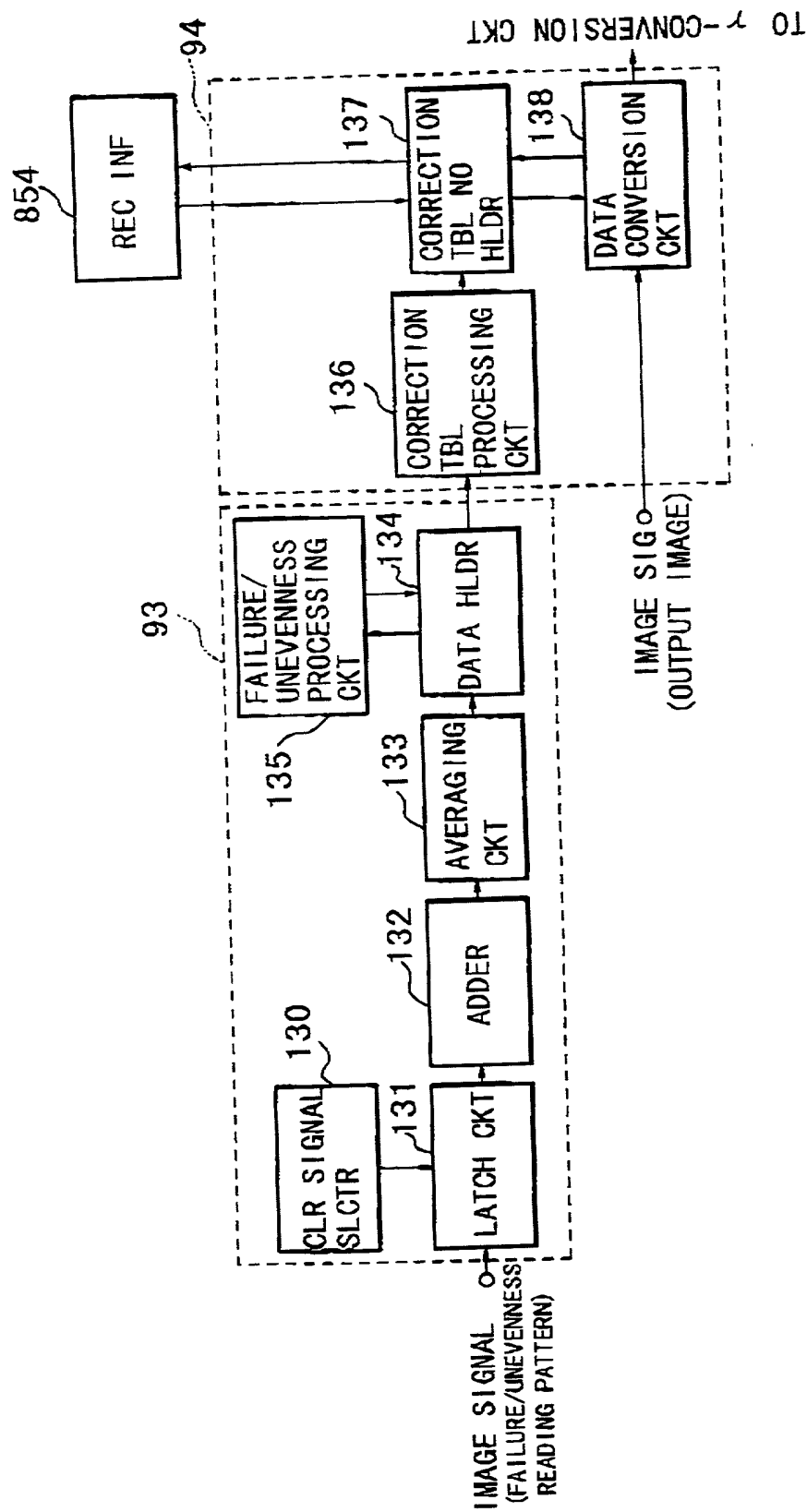


FIG. 23

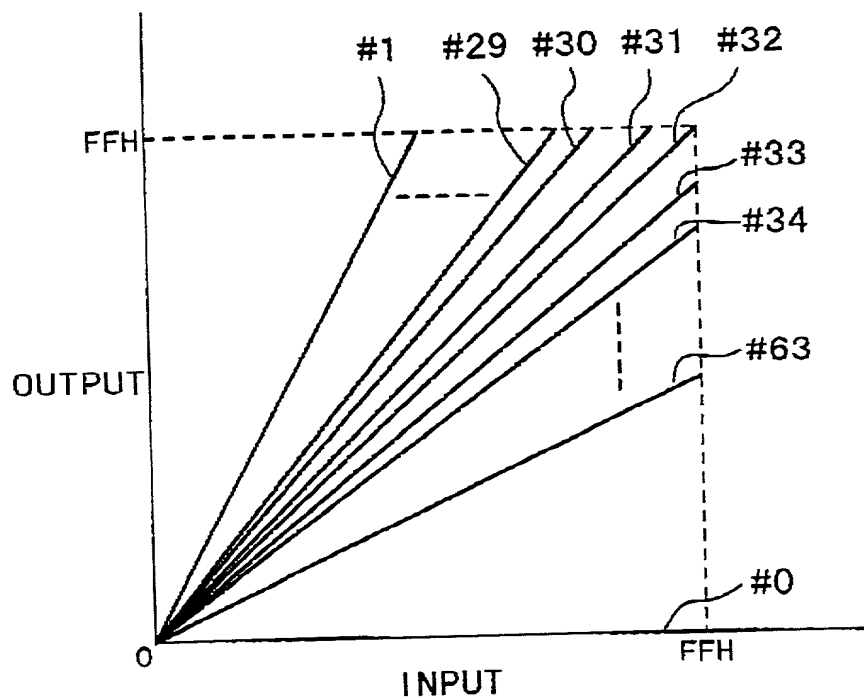


FIG. 24

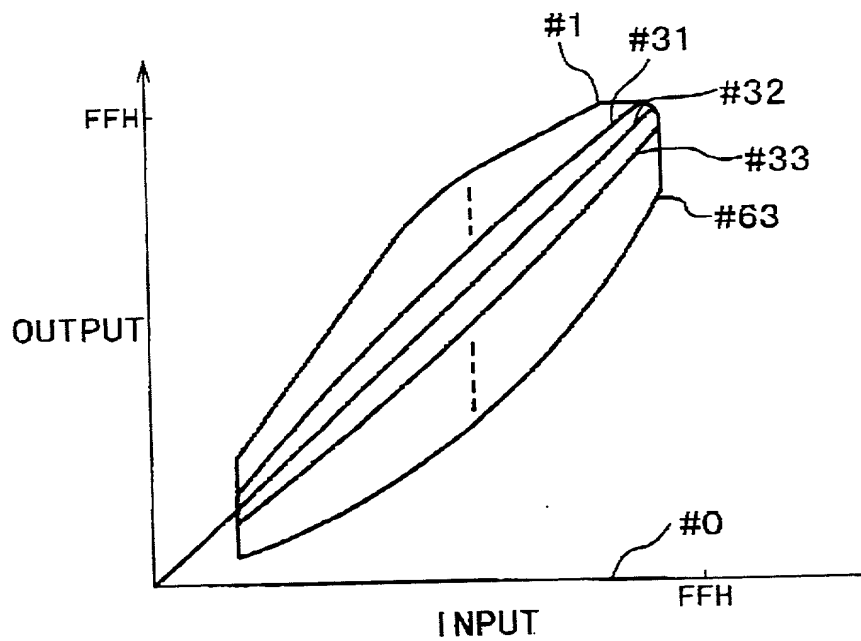


FIG. 25

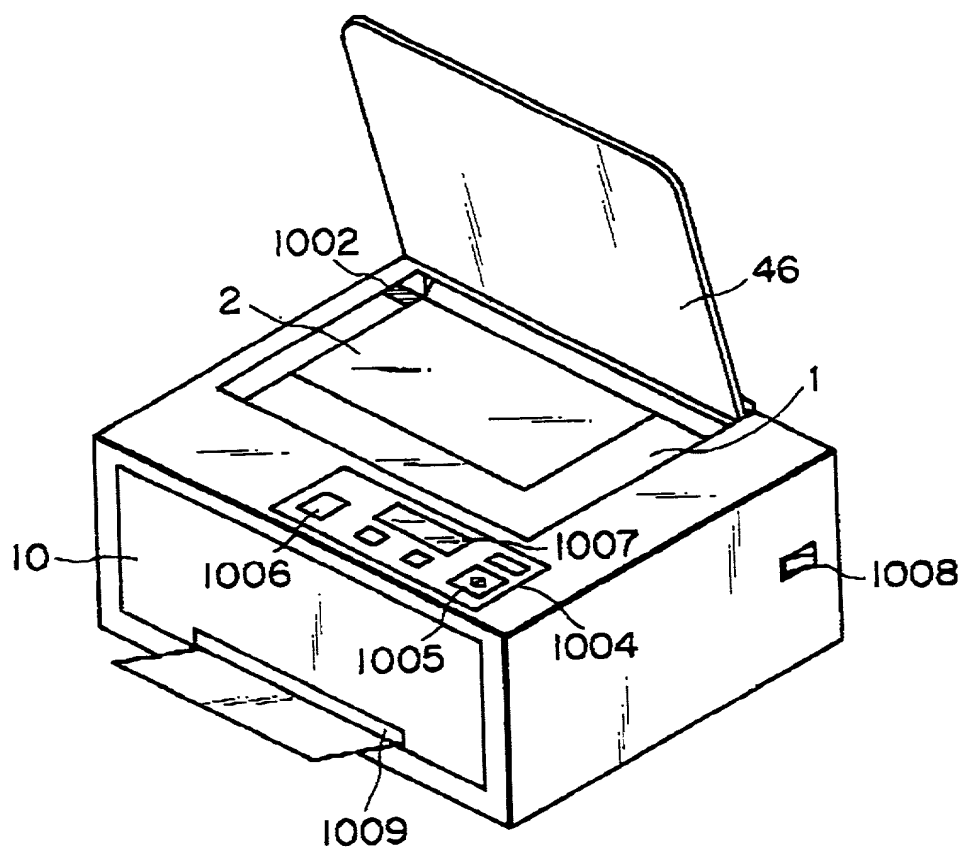


FIG. 26

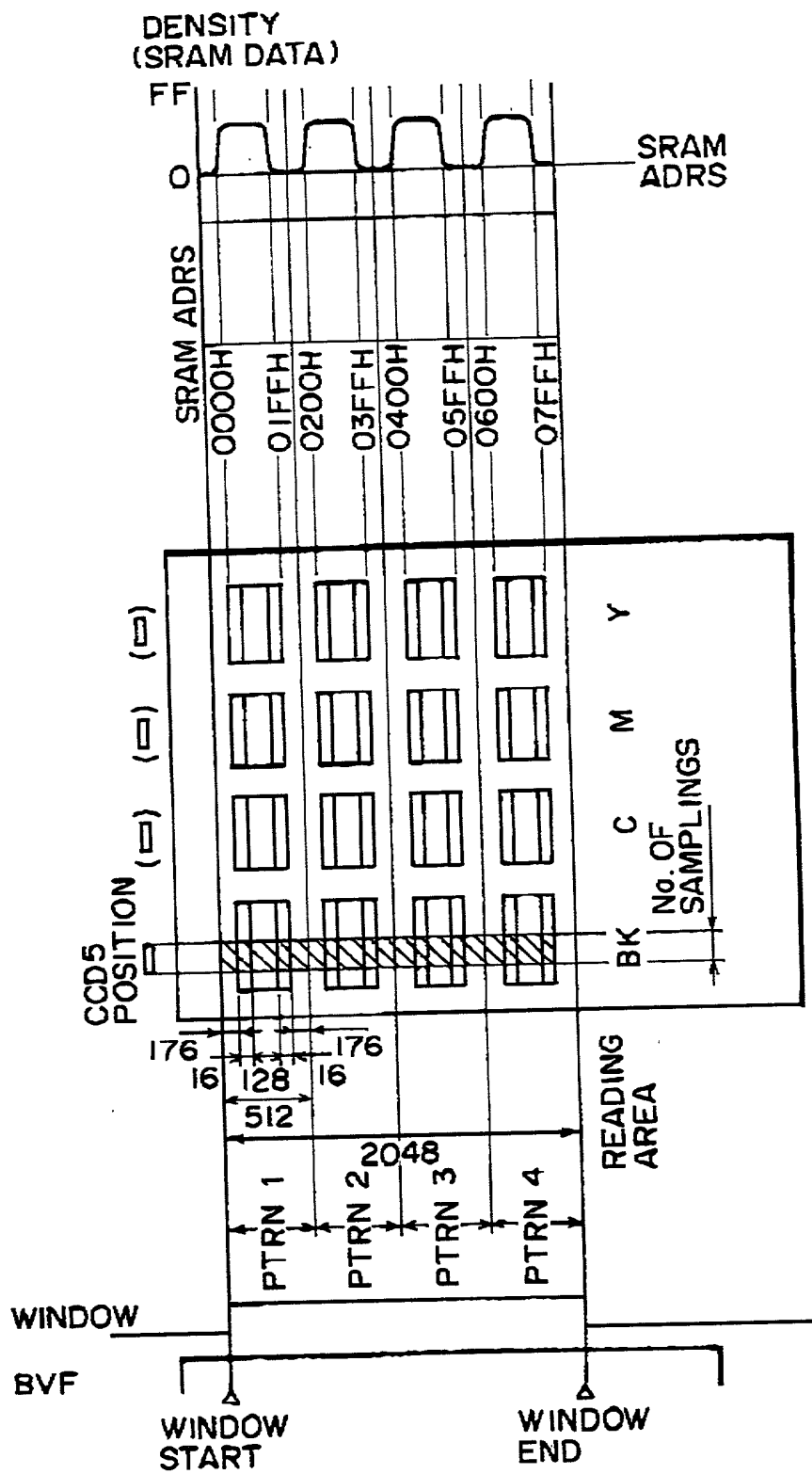


FIG. 27

FIG. 28

FIG. 29A

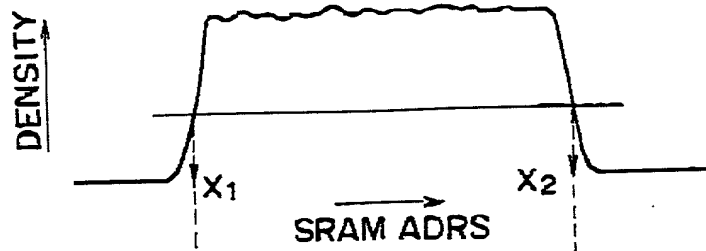


FIG. 29B

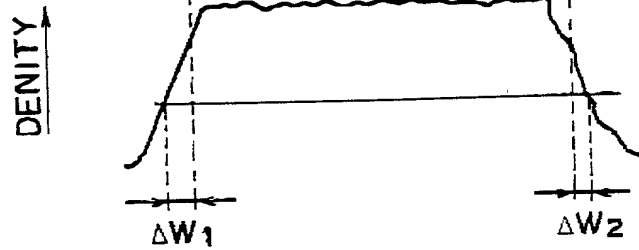


FIG. 29C

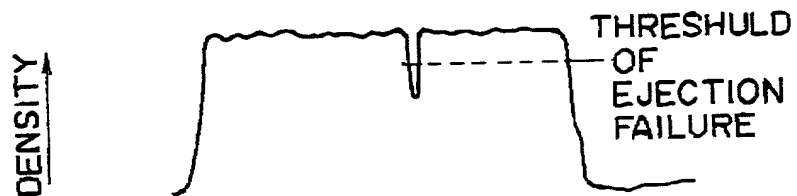
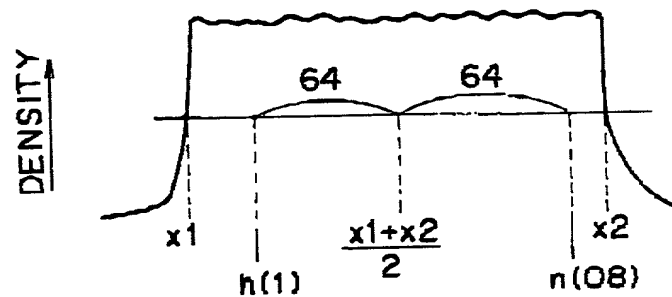


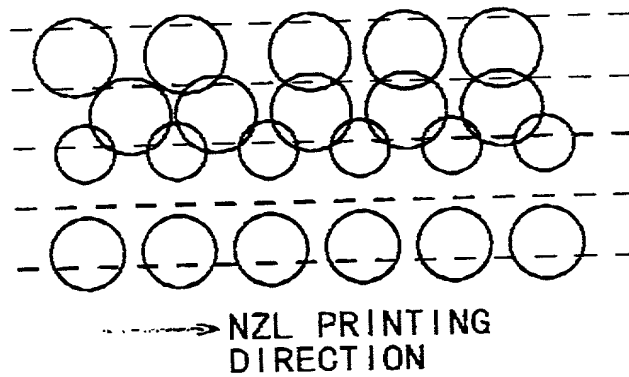
FIG. 30



$$AVE = \frac{1}{128} \sum_{i=1}^{128} n(i)$$

$$ave(i) = \{n(i-1) + n(i) + n(i+1)\} / 3$$

NZL ARRANGEMENT  
DIRECTION



CCD WIDTH OF  
1 PIXEL

FIG. 31

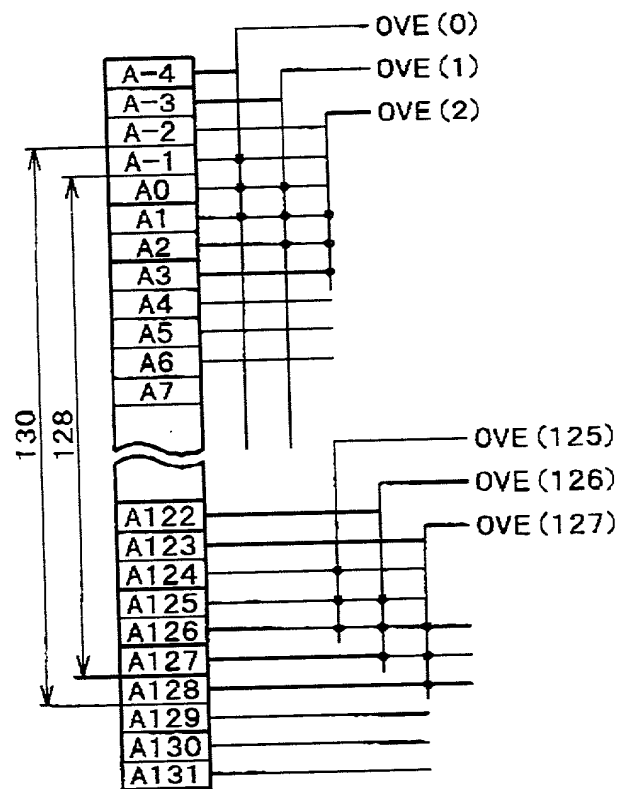


FIG. 32